# E00-102 Meeting

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#### JLAB, Sept 26 2006

•Proton's angle  

$$\cos \theta_{p} = \left[ \frac{(E - E' \cos \theta_{e})^{2}}{(E - E')^{2} + 2(E - E')M_{p}} \right]^{1/2} \quad (1)$$

#### Scattered electron energy

$$\frac{E'}{E} = \left[1 + \frac{1}{M_p} \left(2\sin^2\frac{\theta_e}{2}\right)\right]^{-1}$$

(2)

# **Calculations - plot**



# Sieve Slit Run (1300), R arm, qq-kin



## Sieve Slit Run (2801), L arm, qq-kin



Note: starred-points are from calculation using Equation (1)

### Not Sieve Slit Run (2086), qq-kin



# Missing Energy $(E_m)$

## Sieve Slit Run (1300), R arm



## Sieve Slit Run (2801), L arm



### Not Sieve Slit Run (2086)





# ESP\_L arm # 1300





# ESP\_R arm #1300



## ANAL\_L arm #1300



## ANAL R arm #1300



# ESP\_L arm #2801



# ESP\_R arm #2801



# ANAL\_L arm #2801



# ANAL\_R arm #2801



# **Analyzer vs Espace**

#### Analyzer – Espace (Run # 1300)



Before code changed in Espace

#### Analyzer – Espace (Run # 1300)



After code changed in Espace (Header's file : "Reconstruct")

#### Analyzer – Espace (Run # 2801)



Before code changed in Espace

#### Analyzer – Espace (Run # 2801)



After code changed in Espace (Header's file : "Reconstruct"): Under Investigation!

# **Additional Items**

Using Run # 2086

#### **Scattered Energy of Electron**



#### **Proton Momentum**



 $\theta_{tg}$  and  $\phi_{tg}$  (Right Arm)



 $\theta_{tg}$  and  $\phi_{tg}$  (Left Arm)

